

Introduction to Global Relief Technologies

Invasive Species Advisory Council
December 9, 2010

Vegetation Management Integrated
Systems Initiative

**THE INFORMATION WE NEED
ANYWHERE...ANYTIME...**



**CRITICAL AND RAPID INFORMATION FOR EARLY DETECTION
AND RAPID RESPONSE**

Global Relief Technologies is the brainchild of Founder Michael Gray who as a State Department refugee relief worker experienced first hand in the Balkans the need to alleviate suffering by getting critical humanitarian relief data from the field to the decision makers for rapid response...which was not happening...



GRT was born from the belief that GRT's technology can make life better. It Can. It Does.

It Will for us.



Threats to crops, ranges, and forest products.

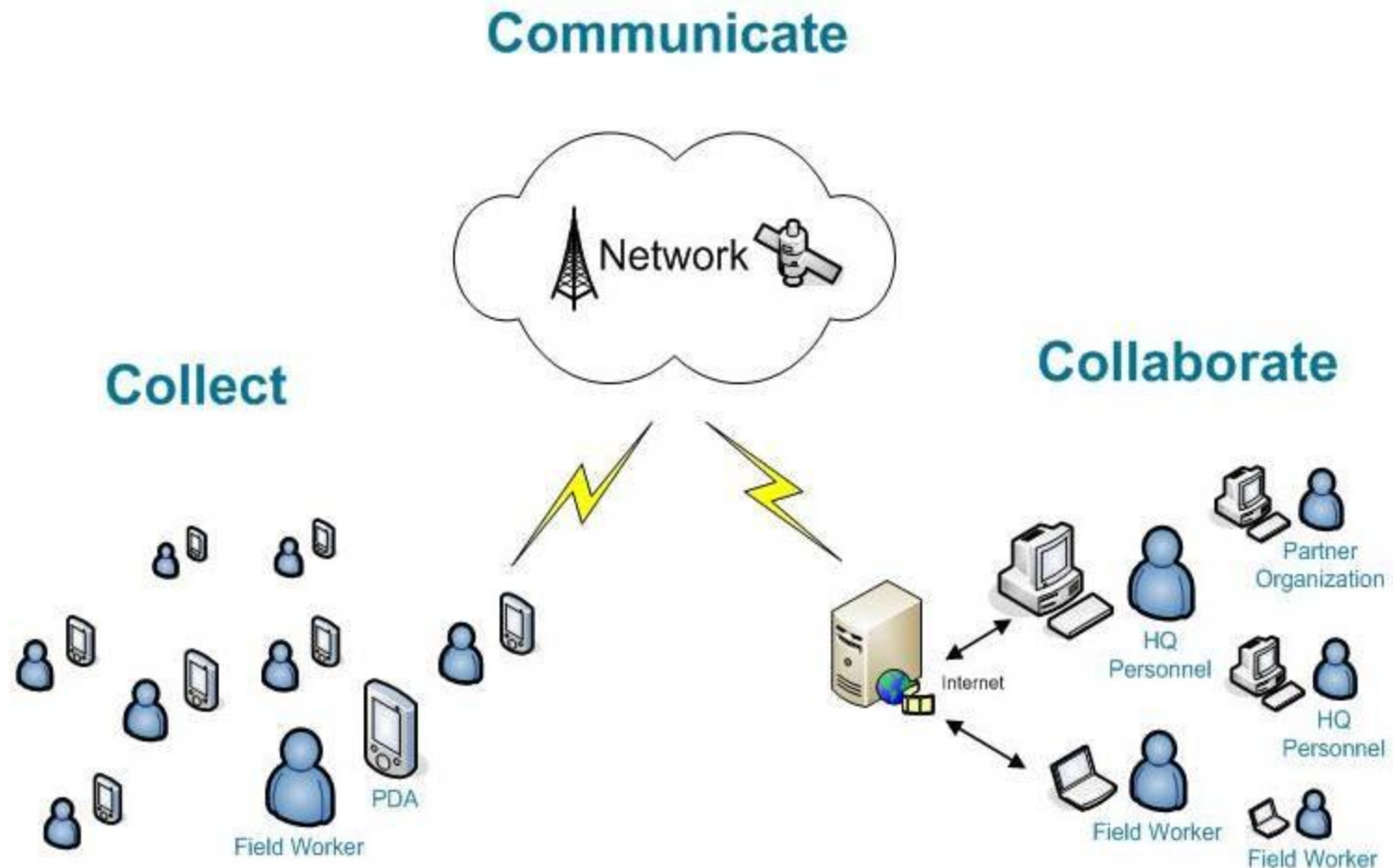




The Rapid Data Management System™ Overview

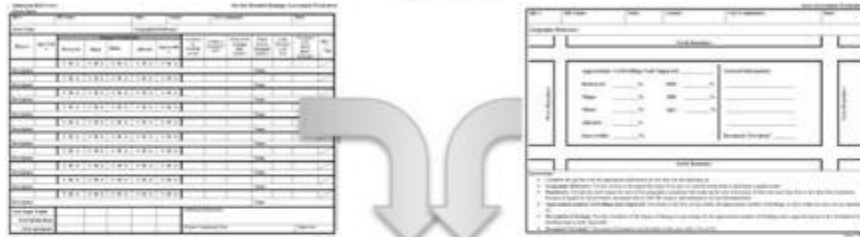
- **RDMS Collect™** – Simple flexible software by which field personnel can quickly and accurately collect and upload field data and photos to the Collaboration Center.
- **RDMS Communicate™** - Links RDMS Collect devices in the fields with the Collaboration Center and allows data and photos to flow between the two in even the most difficult and remote environments.
- **RDMS Collaborate™** - Provides a virtual Collaboration Center that facilitates monitoring, reviewing and evaluating information as it is transmitted by field personnel to your organization's secure database; instant analysis of information using standard and custom charts, graphs, and reporting capabilities; and location-based analysis using maps and satellite imagery.

Transforming how organizations handle data



Paper to PDA Real-time Updates Including GIS

GRT



The diagram illustrates the transition from a paper-based form to a digital form. On the left is a paper form with multiple rows and columns. On the right is a digital form with a similar layout. A large grey funnel points from the paper form to the digital form, indicating the migration of data.

- Assessment: Street Worksheet
 - Category: General Info
 - Q: City/Community
 - Q: Geographical Reference
 - Q: Street Name
 - Category: House Info
 - Q: House Number
 - Q: Apt/Unit Number
 - Q: Dwelling Type
 - Q: Occupancy Type
 - Q: How did you verify the occupancy type?
 - Q: # of Floors in Dwelling or Unit
 - Category: Damage Info
 - Q: Damage Classification
 - Q: Destroyed Description
 - Q: Major Description
 - Q: Minor Description
 - Q: Affected Description
 - Q: Inaccessible Description
 - Q: Additional Damage Description

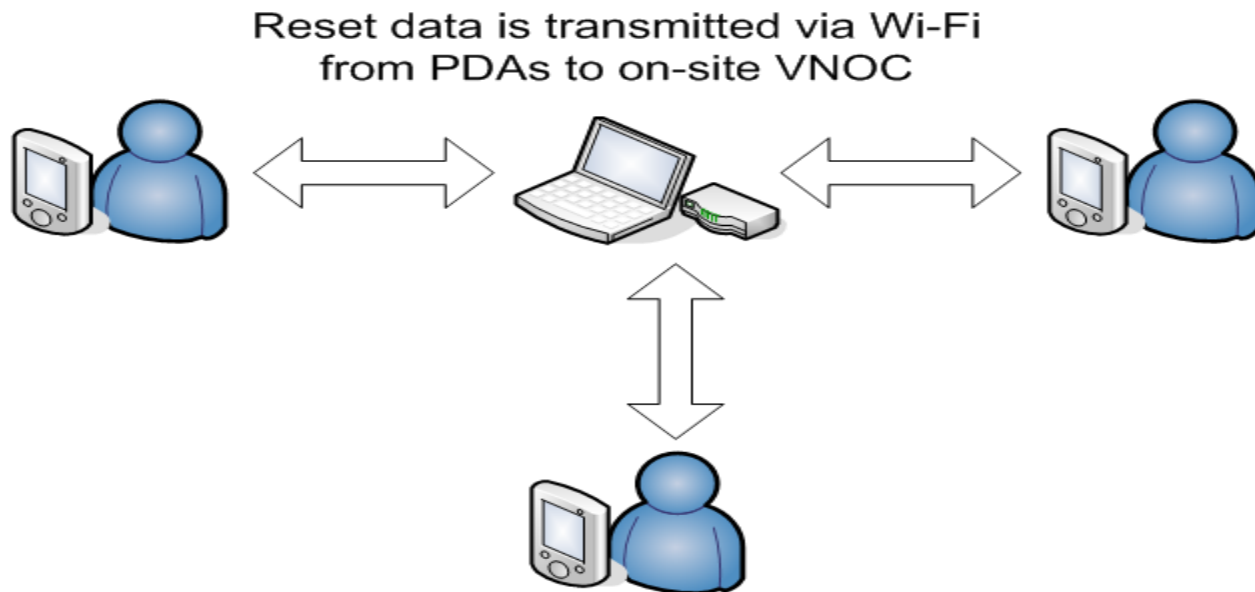
Internet

FIELD



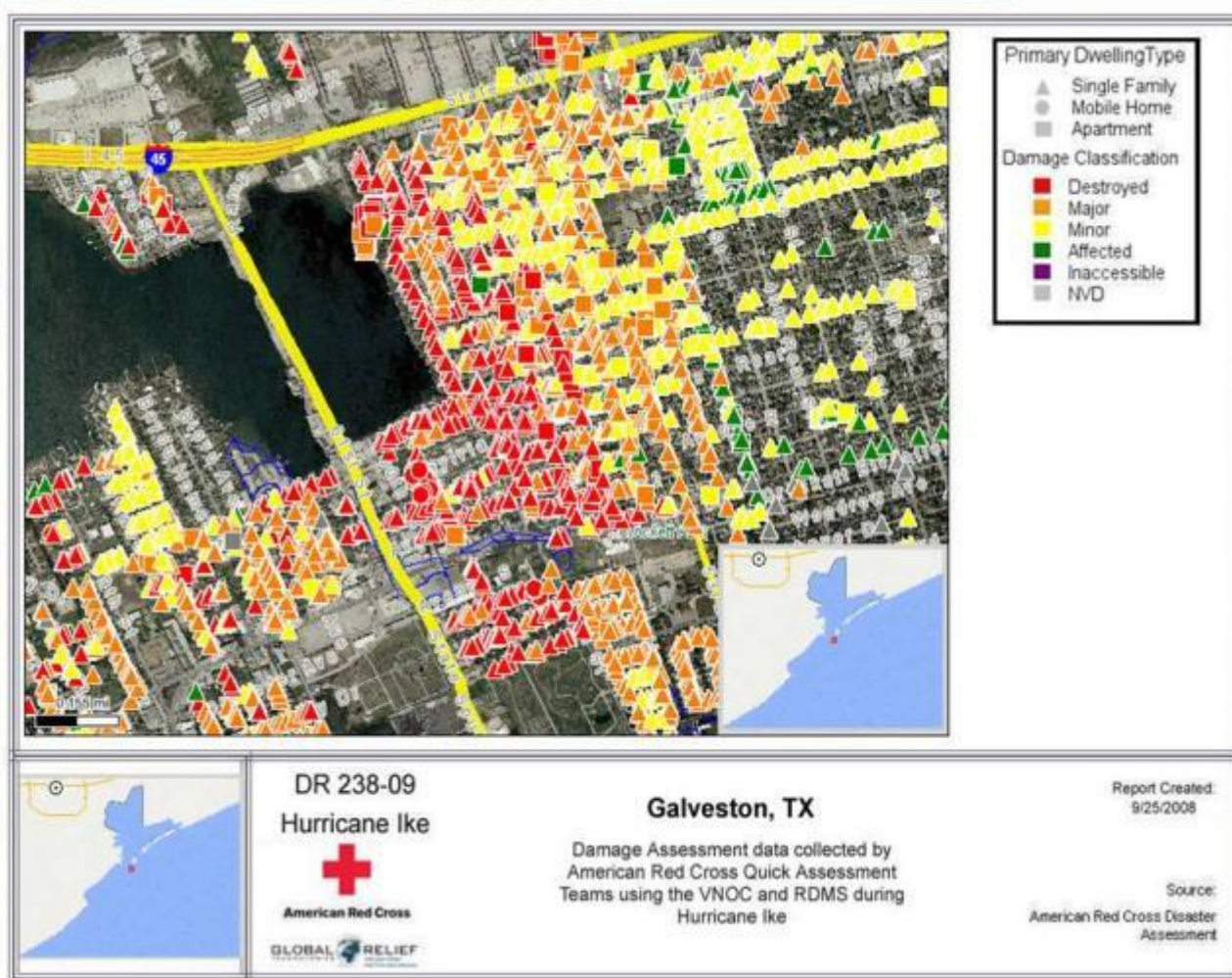

Two screenshots of the RDMS Street Sheet application on a PDA. The left screen shows 'Question 3 of 9' with a 'Damage Classification' dropdown menu. The right screen shows 'Question 4 of 10' with a 'Dwelling Type' dropdown menu. Both screens have 'Back', 'Note', and 'Done' buttons at the bottom.

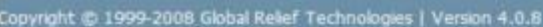
- Information can flow both ways;
- Field user can receive updated information from HQ such as new forms OR recommendation for addressing the issue in the field. e.g. “use XYZ product XX”



Hurricane Ike, Galveston

September 2008







ASSESSMENT 3 OF 5

[PREV](#) [NEXT](#)

Assessment Information

Staff (Device): [Sam Heffner \(GRTmc75-41 - OLDEST\)](#)

Date assessed:: 07-Apr-09 12:48 GMT

County: Aroostook

Date posted: 07-Apr-09 12:50 GMT

Subject: Sit. Report

State: Maine

Lat, Lon: 46.774600, -67.832500

mgrs: 19TEM 89130 80779

Assessment Details

Assessment: Condition Report

Category: General [\[show/hide\]](#)

Town: Fort Fairfield

Street: Route 1A.

Short Description: West side (up stream) of Route 1A Bridge. Ranger 4336.



[Click here to enlarge](#)

close

Legend

Total: 163 Assessments



Flooding



Alert



Multiple Assessments



Area Assessments

[Add/Remove Layers](#)

[Tools](#)

[Auto Refresh](#)



American Red Cross Northern Maine

Virtual Network Operations Center

Welcome dev | [Contact GRT](#) | [Log out](#)

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You are here: [Home](#) > [Assessments](#) > [View](#) > [Details](#)

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Assessment Details: 326-08 / Damage Assessment / Street Sheet

[Details](#)[Review](#)[Edit](#)[<< Back](#)[View on Map](#)[Archive](#)

Assessment Information

Staff (Device): [Edward Fitzgerald \(grt2\)](#)

County: Aroostook

Subject: n/a

State: Maine

Lat, Lon: 47.252670, -68.591560

mgrs: n/a

Assessed: 04-May-08 15:20 GMT

Posted: 04-May-08 15:21 GMT

Last Reviewed: 04-May-08 21:54 GMT by helpdesk

Last Edited: 04-May-08 21:54 GMT by helpdesk

Last Shared: n/a

Assessments

[Overview](#)[View Assessments](#)[Details](#)[Review](#)[Edit](#)[Search Assessments](#)[Add Assessments](#)[Archived Assessments](#)

Assessment Details

Category: General Info [\[show / hide\]](#)

City/Community: Fort Kent

Street Name: east main st

Name of Worker Completing Form: eddy

Chapter: Southern Maine

Category: House Info [\[show / hide\]](#)

House Number: 15

Damage Classification: Destroyed

Dwelling Type: Apartment

Occupancy Type: Rent

Description / Additional Info: approx 34 apartments

of floors in dwelling unit: 4

Water level in living area (inches): 96

*** Note:** verified by clean up crew onsite

Is there a basement?: Yes

How is the basement affected?: full of water

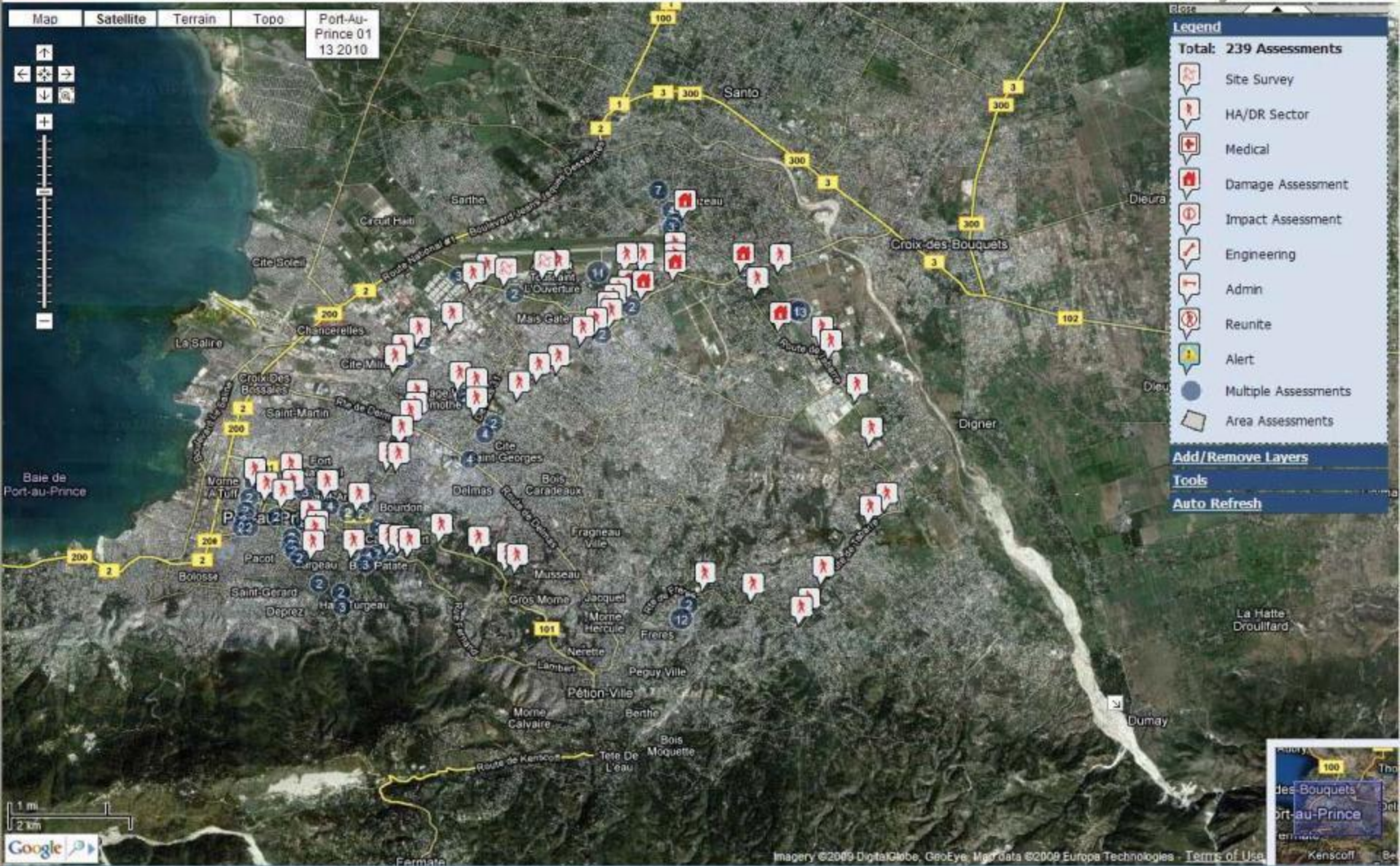
Is there a living quarters in the basement?: Yes

Is electricity on?: No





HAITI





Map Satellite Terrain Topo Port-Au-Prince 01 13 2010

Assessment Information

Staff (Device): [\(INV00074\)](#)

Op Area: Haiti

Subject: o

Loc Type: Haiti

Lat, Lon: 18.523700, -72.272200

mgrs: 18QYF 87993 50305

Date assessed::29-Jan-10 17:00 GMT

Date posted: 29-Jan-10 22:20 GMT

Assessment Details

Assessment: Amputee Survey Form

Category: Patient Info [\[show/hide\]](#)

Category: Medical Condition [\[show/hide\]](#)

Current Condition: Head Injury

Category: Data Collector Location [\[show/hide\]](#)

Data Collector Name: Adam Cote

Data Collector Org.: GRT

Location Type: Communaute Haitienne Hospital

Category: Amputation Info [\[show/hide\]](#)

Extremity: Upper

Upper Location: Below Shoulder

Side Of Body: Right

Date Of Amputation:

Cause Of Amputation: Injury

Residual Limb Closure Type: Non-Absorbable Sutures

Residual Limb Characteristics: Infection

Residual Limb Covering: Bandage

Hygienic Wound Care Being Performed?: Yes

How Many Additional Amputations?: Two

Category: Patient Contact Info [\[show/hide\]](#)

Category: Patient POC [\[show/hide\]](#)



[Click here to enlarge](#)



Imagery ©2009 DigitalGlobe, GeoEye. Map data ©2009 Europa Technologies - [Terms of Use](#)

Services

- 24/7/365 HelpDesk Support
- On-site Training & Support
- Rapid integration of traditional forms
- Custom Reports
- Custom GIS Layers



11/9/2010

NISC priorities = System priorities

National Invasive Species Management Plan:

- Early Detection Alert System
 - Rapid Response funding mechanism
- Collaboration
 - Within & between agencies
 - Between Federal and State
 - Between Private and Public
- Information Sharing
 - Current and New research
 - Decision tools
 - On-the-ground results
 - Grants
 - Economics
 - Rules, Regulations, NEPA documents

Bonus abilities

- Program Evaluation
 - Parameter Choices
 - Reports / Analysis
 - ✦ Research needs, economics, pesticide use
- RESULTS:
 - Increase quality of on-the-ground results
 - ✦ Fuse data
 - ✦ End-to-End Solutions
 - Attract innovators and new generation to Integrated Pest Management
 - ✦ Customized technology

Suggested Recommendation



- ISAC recommends that NISC agencies objectively evaluate available technology to implement the most effective approach to invasive species management. ISAC endorses embracing technology to provide the immediate ability to upload data that can be simultaneously seen and discussed by personnel in the field and management to expedite informed decision making to create end to end solutions to meet objectives of the National Invasive Species Management Plan, including early detection network, collaboration ability, information sharing and performance evaluations. ISAC also recommends development through public-private partnerships utilizing non-federal stakeholders and retail support be encouraged, and pilot projects be implemented to test currently available technology that can be modified or enhanced for invasive species management.

Quality information for better stewardship of our resources.

